

PDP-TELEVISION (PLASMA DISPLAY PANEL)

Owner's Instructions

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

ON-SCREEN MENUS
PICTURE IN PICTURE (PIP)
COLOUR WEAKNESS ENHANCEMENT MODE
MY COLOUR CONTROL
TELETEXT (OPTION)
SRS SRS TRUSURROUNDXT
DNIe** DIGITAL NATURAL IMAGE ENGINE

This device is a Class B digital apparatus.

Precautions When Using the Still Image

The still image may cause permanent damage to the TV screen.

 Digital Ready TV: When you select the regular screen (4:3) mode to watch an SD-grade digital broadcast (and the set-top box output is 480p).



 Digital Ready TV: When you select the wide screen (16:9) mode to watch an SD-grade digital broadcast (and the set-top box output is 1080i).



Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

 Digital Ready TV: When the TV receives HD-grade signals (and the set-top box output is 1080i).



When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.

Note: If the borders at the top, bottom and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

Precautions When Using the Still Image (continued)

- Integrated Digital TV (Wide-screen): When the TV receives SD-grade (regular) broadcasting signals (receives 480p regular signals).
- Digital Ready TV (wide-screen): digital TV: When the TV receives SD-grade (regular) broadcasting signals (with a set-top box).
- When you watch an analogue (regular) broadcast on a wide-screen TV (with the 4:3 screen mode selected).

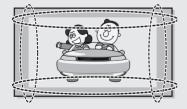


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

- When you watch a DVD, CD or a video in wide screen (21:9) format on a widescreen (16:9) TV.
- When you connect a computer or a game console to the TV and select the 4:3 screen mode.



If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

User Instructions

♦ Screen Image retention

Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

◆ Height

The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

♦ Heat on the top of the PDP TV

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.

This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

◆ The product is making a 'cracking' noise.

A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

♦ Cell Defects

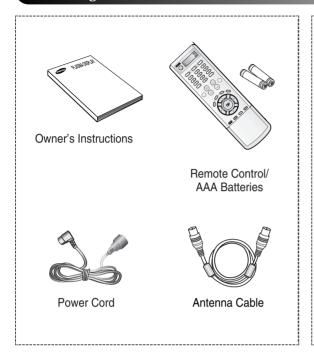
The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

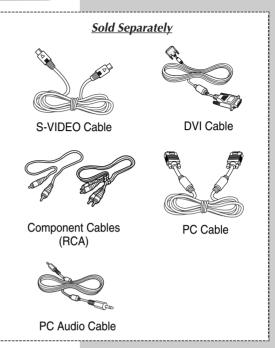
◆ Avoid operating the TV at temperatures below 5°C(41°F)

♦ Warranty

- Warranty does not cover any damage caused by image retention.
- Burn-in is not covered by the warranty.

Checking Parts





DNIe™ (Digital Natural Image engine) DNIe™

This feature bring you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation algorithm gives brighter, clearer, much detailed image to you. DNIe™ technology will fit every signals into your eyes.

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Symbols



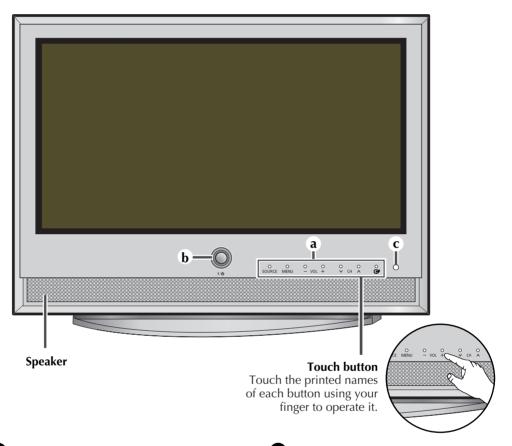




Your New Plasma Display Panel

The actual configuration on your PDP may be different, depending on your model.

Front Panel





External input selection.

MENU

Menu display.

- VOL+

Volume adjustment.

Also used to select or adjust items on the on-screen menu.

\vee CH \wedge

Channel selection. Auto power On.

Also used to move up or down in the on-screen menu.



Confirm your choice (Store or Enter).



Press to turn the PDP on and off.

Power Indicator

- Power Off: Blue
- Power On: Off

9

Remote Control Signal Receiver

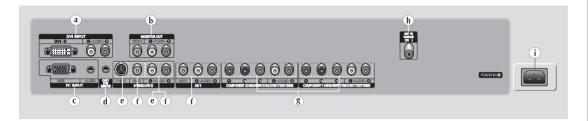
Aim the remote control towards this spot on the PDP.

Your New Plasma Display Panel (continued)

The actual configuration on your PDP may be different, depending on your model.

Rear Panel

For further details about connection, refer to pages 61~65.



a) DVI INPUT (DVI-D / L-AUDIO-R)

Connect to the digital video and audio output jack of a device with DVI output.

b) MONITOR OUT (VIDEO / L-AUDIO-R)

Outputs for external devices.

c) PC INPUT (RGB IN / AUDIO)

Connect to the video and audio output jack on your PC.

d) ONLY FOR SERVICE

Connector for service only.

e) S-VIDEO / L-AUDIO-R (AV2)

Video and audio inputs for external devices with an S-Video output, such as a camcorder or VCR.

f) VIDEO / L-AUDIO-R (AV1, AV2)

Video and audio inputs for external devices, such as a camcorder or VCR.

g) COMPONENT1, COMPONENT2

Video $(Y/P_b/P_r)$ and audio (L-AUDIO-R) inputs for Component.

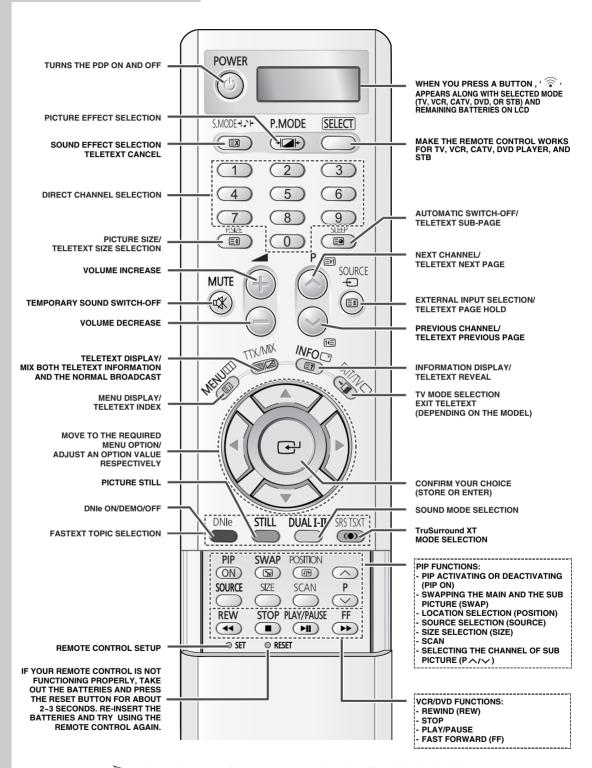
h) ANT IN VHF/UHF (75Ω)

75 Ω Coaxial connector for Aerial/Cable Network.

i) POWER IN

Connect the supplied power cord.

Infrared Remote Control



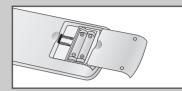
The performance of the remote control may be affected by bright light.

Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ◆ Purchase the PDP
- Find that the remote control is no longer operating correctly
- Remove the cover on the rear of the remote control by pressing the symbol (downwards and then pulling firmly to remove it.
- Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
 - on the battery against on the remote control
 - + on the battery against + on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pressing it back into place. Do not mix battery types, i.e. alkaline and manganese.

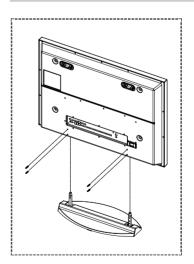






Assembling the Stand-Base

- 1 Assemble the PDP with the stand and firmly secure the PDP using 4 screws provided.
- ➤ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always store the PDP upright.



Installing the Display on the Wall Attachment Panel

Installation Notes

- Do not install the PDP on any place other than vertical walls.
- To protect the performance of the PDP and prevent troubles, avoid the followings:
 - Do not install next to smoke and fire detectors.
 - Do not install in an area subjected to vibration or high voltage.
 - Do not install near or around any heating apparatus.
- ◆ Use only recommended parts and components.

Mounting Kits (Sold Separately)

Wall Mount Bracket	Plastic Hanger	Screws
	4 EA	4 EA

Installing the Display on the Wall Attachment Panel (continued)

- The exterior of the PDP may be different than the picture.

 (Assembly and installation of the plastic hanger is the same.)
 - 1 Remove the screws from the back of the PDP.

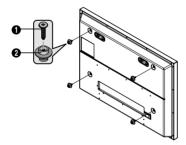


2 Use the screws and assemble the plastic hanger.

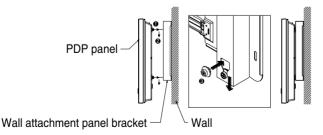




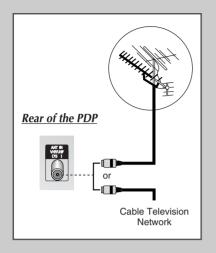
- ◆ Please ask the installers to install the wall mount bracket.
- Please be sure to check if the plastic hanger is completely secured on both the left and right side after hanging the PDP on the wall mount bracket.
- Please avoid catching your fingers while installing and adjusting the angle.
- Please tightly secure the wall mount bracket to the wall to avoid injury from a falling PDP.
- **3** Tighten the screws of the plastic hanger to the back side of the PDP.



4 Put the 4 pegs on the PDP in the grooves of the wall mount bracket and pull down on the PDP (1) to secure it to the wall mount bracket (2). Tighten the screws as shown (3) so that the PDP cannot be separated from wall mount bracket.



Connecting to an Aerial or Cable Television Network



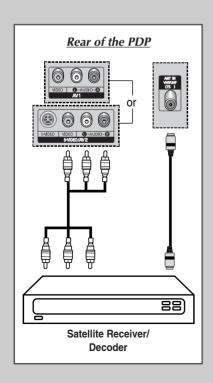
To view television channels correctly, a signal must be received by the set from one of the following sources:

- ♦ An outdoor aerial
- ◆ A cable television network
- A satellite network
- In the first three cases, connect the aerial or network input cable to the ANT IN jack on the rear of the PDP.
- 2 If you are using an indoor aerial, you may need to turn it when tuning your PDP until you obtain a picture that is both sharp and clear.

For further details, refer to:

- ◆ "Storing Channels Automatically" on page 20
- "Storing Channels Manually" on page 21
- When installing or re-installing your PDP, be sure to use the supplied coaxial antenna cable. If you connect using a different coaxial cable, there is risk of noise or interference to the screen image. (You must not use another general purpose cable. Use the 3M/5M/7M cable supplied by Samsung.)

Connecting a Satellite Receiver or Decoder



English - 14

In order to watch television programmes broadcast via a satellite network, you must connect a satellite receiver to the rear of the PDP. Also, in order to descramble a coded transmission signal, you must connect a decoder to the rear of the PDP.

Using a Coaxial cable

Connect a coaxial cable to the:

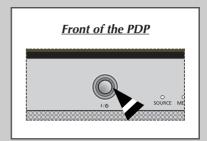
- Receiver (or Decoder) output socket.
- ◆ Television aerial input socket.
- If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:
 - Receiver (or Decoder) to the VCR
 - ♦ VCR to the PDP

Otherwise, connect the receiver (or decoder) directly to the PDP.

Switching On and Off

The mains lead is attached to the rear of your PDP.

- 1 Plug the mains lead into an appropriate socket.
 - Result: The standby indicator on the front of the PDP lights up.
 - The main voltage is indicated on the rear of the PDP and the frequency is 50 or 60Hz.
- 2 Press the "I/ ()" button on the front of the PDP (or **POWER** (③) button on the remote control) to switch the PDP on.
 - Result: The programme that you were watching last is re-selected automatically.
 - If you have not yet stored any channels, No clear picture appears. Refer to "Storing Channels Automatically" on page 20 or "Storing Channels Manually" on page 21.
- 3 To switch your PDP off, press the "I/ \(\documes\)" button again.



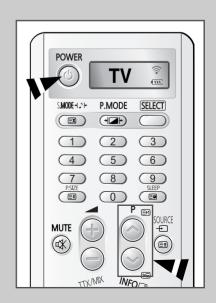


Placing in Standby Mode

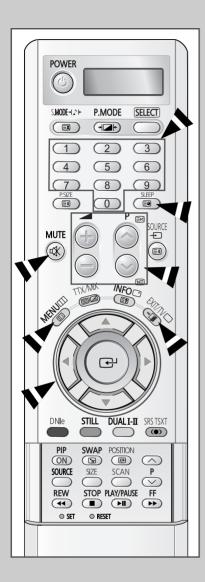
Your PDP can be placed in standby mode, in order to reduce the Power consumption.

The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER** (((a)) button on the remote control.
 - Result: The screen is turned off and the standby indicator on the front of the PDP lights.
- 2 To switch the PDP back on, simply press the **POWER** (③) button again or a numeric button.
 - You can also switch on by pressing the P or button.



Becoming Familiar with the Remote Control



The remote control is used mainly to:

- ♦ Change channels and adjust the volume
- ♦ Display the on-screen menu system

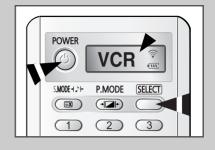
The following table presents the most frequently used buttons and their functions.

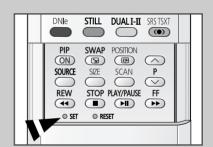
Button	Viewing Function	Menu Function
	Used to display the next stored channel.	-
	Used to display the previous stored channel.	-
① to ⑨		ls, the second digit must be er the first. Failure to do this will
SLEEP	Used to select a preset time in 150 - 180).	terval (off - 30 - 60 - 90 - 120 -
+	Used to increase the volume.	-
	Used to decrease the volume.	-
MUTE	Used to switch the sound off to To turn the sound back of press the or butt	on, press this button again, or
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
	-	Used to: ◆ Display a submenu containing selections for the current menu option ◆ Increase/decrease a menu option value
	-	Used to confirm your choice.
EXIT/TV → ■	-	Used to exit from the menu system and return to normal viewing directly.

Setting Up Your Remote Control

This PDP's remote control can operate VCR, Cable box, DVD, or Set-Top Box, in addition to controlling the PDP.

- The remote control is not compatible with the TV manufactured by another company.
- 1 Turn off your VCR, Cable box, DVD or Set-Top Box.
- 2 Press the SELECT button. Mode is changed whenever SELECT button is pressed.
- 3 Press the POWER ((**)) button on the remote control. The component you select should turn on. If it turns on, your remote control is now set correctly.
- Once your remote control is set up, press the SELECT button any time you want to use the remote control to operate your VCR, Cable box, DVD or Set-Top Box.
 - When your remote control is in the VCR, CATV, DVD or STB mode, the volume buttons still control your television's volume.
 - To program the cable receiver controls:
 - Press the SELECT button to select CATV.
 - Point the remote control at the cable receiver and press the SET button. Then press the company code number(s) for the component in page 70.
 Ex) If the component is manufactured by Oak, press 026.
 - To program the VCR controls:
 - ◆ Press the **SELECT** button to select **VCR**
 - Point the remote control at the VCR and press the SET button. Then press the company code number(s) for the component in page 71.
 - To program the DVD controls:
 - ◆ Press the **SELECT** button to select **DVD**
 - Point the remote control at the DVD and press the SET button. Then press the company code number(s) for the component in page 70.





Plug & Play Feature

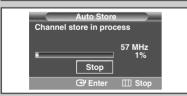
















English - 18

When the television is initially powered ON, several basic customer settings proceed automatically and subsequently. The following settings are available.

1 If the television is in standby mode, press the POWER (③) button on the remote control.

Result: The message Plug & Play is displayed, then the Language menu is automatically displayed a few seconds later.

- 2 Select the appropriate language by pressing the ▲ or ▼ button.
- 3 Press the **ENTER** () button to confirm your choice.

Result: The message Antenna Input Check is displayed.

4 Make sure that the antenna is connected to the TV, then press the ENTER (←) button.

Result: The Area menu is displayed.

- 5 Select your Area by pressing the ▲ or ▼ button.
- 6 Press the ENTER () button to confirm your choice.

Result: The **Auto Store** menu is displayed.

7 To start the search, press the **ENTER** () button.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). When it has finished, the Clock Set menu is displayed.

- To stop the search before it has finished or return to normal viewing, press the **MENU** () button.
- Press the **ENTER** () button to set the clock.
- 8 Press the ◀ or ▶ button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.
- When it has finished, the message Enjoy Your Watching is displayed, then the channel which has been stored will be activated.

Plug & Play Feature (continued)

If you want to reset this feature...

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select Miscellaneous.

Press the **ENTER** (→) button.

Result: The options available in the Miscellaneous group are

displayed.

5 Press the ▲ or ▼ button to select Plug & Play.

Press the **ENTER** () button.

Result: The message Plug & Play is displayed.

6 For further details on how to set, refer to the opposite page.





Choosing Your Language

When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select Language.

Press the **ENTER** (→) button.

Result: The available languages are listed.

5 Select the appropriate language by pressing the ▲ or ▼ button.

6 Press the **ENTER** () button to confirm your choice.

7 When you are satisfied with your choice, press the **EXIT/TV** (→**□**) button to return to normal viewing.





Storing Channels Automatically











You can scan for the frequency ranges available to you, (availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

1 Press the MENU (□) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select Area. Press the ENTER (←) button.

Result: The countries available are listed.

- 5 Select your country (or area) by pressing the ▲ or ▼ button.
- 6 Press the **ENTER** () button to confirm your choice.
- 7 Press the ▲ or ▼ button to select Auto Store.
 Press the ENTER (→) button.

Result: The **Auto Store** menu is displayed.

8 Press the **ENTER** () button to start the search.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range, (with lowest first and highest last). When it has finished, the Channel Sort menu is displayed.

- To stop the search before it has finished, press the MENU () button.
- When the channels have been stored, you can:
- ◆ Sort them in the order required (see page 24)
- ◆ Clear a channel (see page 23)
- ◆ Fine-tune channel reception if necessary (see page 33)
- ◆ Assign a name to the stored channels (see page 25)
- Activate/deactivate the Digital Noise Reduction feature (see page 45)
- 9 Select the channel that you wish to move by pressing the ▲ or ▼ button. Press the ENTER (→) button.
- Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
 Press the ENTER (→) button.

Result: The channel is moved to its new position and all other channels are shifted accordingly.

11 Repeat Steps 8 to 9 until you have moved all the channels to the required programme numbers.

Storing Channels Manually

You can store up to 100 television channels, including those received via cable networks.

When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
- The programme number of each stored channel which you wish to identify.
- 1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select Manual Store.
 Press the ENTER (→) button.

Result: The option available in the Manual Store group are displayed with Prog. is selected.

- To assign a programme number to a channel, find the correct number by pressing the ▲ or ▼ button.
- 6 If necessary, select the broadcasting standard required. Press the ◀ or ▶ button to select Colour System and press the ▲ or ▼ button. The colour standards are displayed in the following order (depending on the model).

Auto - PAL - SECAM Or Auto - NT3.58 - NT4.43 - PAL60

7 Press the ◀ or ▶ button to select Sound System and press the ▲ or ▼ button. The sound standards are displayed in the following order (depending on the model).

BG - DK - I - M









Storing Channels Manually (continued)









- 8 If you know the number of the channel to be stored, see the following steps.
 - ◆ Press the ◀ or ▶ button to select Channel.
 - Press the ▲ or ▼ button to select c (Air channel) or s (Cable channel).
 - ◆ Press the ▶ button.
 - Press the numeric buttons (0~9), ▲ or ▼ button to indicate the desired channel number.
 - If there is no sound or noise only, try a different sound standard
- 9 If you do not know the channel numbers, select the Search by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

- To assign a programme number to a channel, select the Prog. by pressing the ◀ or ▶ button.
 Press the ▲ or ▼ button until you find the correct number.
- 11 To store the channel and associated programme number, select the **Store** by pressing the ◀ or ▶ button. Press the **ENTER** (→) button.
- 12 Repeat Steps 8 to 11 for each channel to be stored.

Channel mode

- C (Real channel mode):
 You can select a channel by entering the assigned number
 to each air broadcasting station in this mode.
- \$ (Cable channel mode):
 You can select a channel by entering the assigned number for each cable channel in this mode.

Skipping Unwanted Channels

Skipping unwanted channels

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are thus not displayed. All channels that you do not specifically choose to skip are displayed during scanning.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the Channel group are

displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select **Edit**.

Press the **ENTER** () button.

Result: The Edit menu is displayed.

5 Press the ▲ or ▼ button to select Add/Delete.

Press the **ENTER** (→) button.

Result: The Add/Delete menu is displayed with the current

channel automatically is selected.

Press the ▲ or ▼ button to select the channel to be deleted.

Press the **ENTER** () button.

7 To add or delete the channel, select Added or Deleted by pressing the ▲ or ▼ button.

Press the **ENTER** () button to confirm.









Sorting the Stored Channels









This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using ATM. You can delete those channels you do not want to keep.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select Edit. Press the ENTER (→) button.

Result: The **Edit** menu is displayed.

5 Press the ▲ or ▼ button to select **Sort**. Press the **ENTER** (→) button.

Result: The **Sort** menu is displayed.

- 6 Select the channel that you wish to move by pressing the ▲ or ▼ button. Press the ENTER (→) button.
- 7 Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
 Press the ENTER (→) button.

Result: The channel is moved to its new position and all other channels are shifted accordingly.

8 Repeat Steps 6 to 7 until you have moved all the channels to the required programme numbers.

Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are

displayed.

3 Press the ENTER (→) button.

Result:

4 Press the ▲ or ▼ button to select **Edit**.

Press the **ENTER** () button.

5 Press the ▲ or ▼ button to select Name.

Press the **ENTER** (→) button.

Result: The Name menu is displayed with the current channel

automatically is selected.

The Edit menu is displayed.

6 If necessary, select the channel to be assigned to a new name by pressing the ▲ or ▼ button.

Press the **ENTER** () button.

Result: Arrow indications are displayed around the name box.

- 7 Press the ▲ or ▼ button to select a letter (A~Z), a number (0~9), or a symbol (space, ., -). Move on to the previous or next letter by pressing the ◄ or ► button.
- **8** Preset steps **6** to **7** for each channel to be assigned to a new name
- 9 When you have finished entering the name, press the ENTER (국가) button to confirm the name.









Using the LNA (Low Noise Amplifier) Feature







This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area, but not noise.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select Edit. Press the ENTER (→) button.

Result: The Edit menu is displayed.

5 Press the ▲ or ▼ button to select LNA. Press the ENTER (→) button.

Result: The available options are listed.

- 6 Select **on** or **off** by pressing the ▲ or ▼ button. Press the **ENTER** (→) button to confirm.
 - ➤ If the picture is noisy with the **LNA** set to **On**, select **Off**.
 - **◆ LNA** setting is to be made for each channel.

Activating the Child Lock

◆ Activating the child lock

This feature allows you to lock the television so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. Thus, by keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programme.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are

displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select **Edit**.

Press the **ENTER** () button.

Result: The Edit menu is displayed.

Fress the ▲ or ▼ button to select Child Lock.

Press the ENTER (→) button.

Result: The Child Lock menu is displayed with the current

channel automatically is selected.

Blue Screen is displayed when the Child Lock is

activated.

- 6 Press the ▲ or ▼ button to select the channel to be locked.
- 7 Press the ENTER (→) button.
 To lock the channel, select Locked by pressing the ▲ or ▼ button (to unlock the channel, select Unlocked).

Press the **ENTER** (button to confirm.



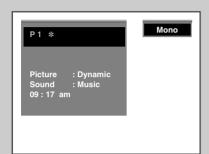






Displaying Information





You can view the channel information and setting status you select by pressing the "INFO ()" button on the remote control. The information displayed varies according to the selected source.

Changing the Picture Standard





You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the MENU () button.
 - Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Picture**.
 - Result: The options available in the **Picture** group are displayed.
- 3 Press the ENTER () button.
 - Result: The Mode is selected.
- 4 Press the ENTER (→) button again.
 - Result: The available options are listed.
- 5 Select the option by pressing the ▲ or ▼ button.
 - Result: The following modes are available depending on the input source.
 - ◆ Dynamic Standard Movie Custom
 - High Middle Low Custom (PC or DVI Mode).
- 6 Press the **ENTER** (→) button to confirm.
 - ➤ You can also set these options simply by pressing the **P.MODE** (+|**I**|=: Picture Mode) button.

Adjusting the Picture Settings

Your television has several settings which allow you to control picture quality.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Picture.

Result: The options available in the **Picture** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Select the required option (Custom, Colour Tone) pressing the ▲ or ▼ button.
- 5 Press the ▲ or ▼ button to select Custom. Press the ENTER (→) button.

Result: The **Custom** menu is displayed.

- Press the ENTER () button to change the setting. The options are displayed in the following order.
 - Custom : Contrast, Brightness, Sharpness, Colour, and Tint(NTSC ONLY)
 - Custom Options available in PC, DVI Mode: Contrast, Brightness, and Sharpness.
 - The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.
 - When the picture mode is set to Custom, the settings values may vary depending on the input source. (ex. RF, Video, Component, PC, or DVI)
 - If you make any changes to these settings, the picture standard is automatically switched to the **Custom**.
 - ♦ Colour Tone: Cool 2, Cool 1, Norma 1, Warm 1, and Warm 2.
- 7 When you are satisfied with the settings, press the EXIT/TV (→□) button to return to normal viewing.
 - ➤ If you make any changes to these settings, the picture standard is automatically switched to the **Custom**.





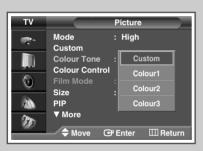


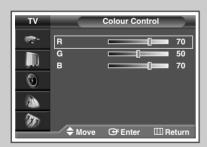


Adjusting the Picture Settings (PC or DVI Mode)









> Preset to the **PC** or **DVI** mode by using the **SOURCE** button.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Picture.

Result: The options available in the **Picture** group are

displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select **Custom**.

Press the **ENTER** (→) button.

Result: The Custom menu is displayed.

5 Press the ▲ or ▼ button to select the option (Contrast, Brightness, Sharpness) to be adjusted.

Press the **ENTER** () button.

Result: The horizontal bar is displayed.

Move the horizontal bar's cursor left or right by

pressing the ◀ or ▶ button.

6 Press the **MENU** () button to confirm your choice.

7 Press the **MENU** () button.

Result: The options available in the Picture group are

displayed again.

8 Press the ▲ or ▼ button to select Colour Tone.

Press the **ENTER** (→) button.

9 Select the option by pressing the ▲ or ▼ button. The colour tones are displayed in the following order.

Custom (PC mode only) - Colour1 - Colour2 - Colour3

10 Press the MENU () button.

Result: The options available in the **Picture** group are

displayed again.

11 Press the ▲ or ▼ button to select Colour Control.

Press the **ENTER** () button.

Result: The **Colour Control** menu is displayed.

12 Press the ▲ or ▼ button to select the option (**R**, **G**, **B**) to be

adjusted. Press the **ENTER** () button.

Result: The horizontal bar is displayed.

Move the horizontal bar's cursor left or right by

pressing the ◀ or ▶ button.

The Colour Control is not available in the DVI Mode.

Setting the Picture (PC Mode)

- > Preset to the PC mode by using the SOURCE button.
- 1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are

displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select PC Setup.
 Press the ENTER (→) button.

Result: The options available in the PC Setup group are displayed.

Fress the ▲ or ▼ button to select Image Lock. Press the ENTER (button.

Result: The options available in the Image Lock group are displayed.

6 Press the ▲ or ▼ button to select the option (Coarse, Fine) to be adjusted. Press the ENTER () button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

- 7 Press the **MENU** () button to confirm your choice.
- 8 Press the MENU () button.

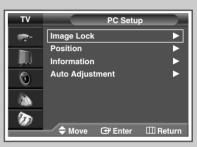
Result: The options available in the PC Setup group are displayed again.

9 Press the ▲ or ▼ button to select **Position**. Press the **ENTER** (→) button.

Result: The options available in the **Position** group are displayed.

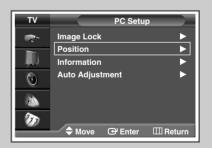
- 10 Adjust the position by using the \triangle , ∇ , \triangleleft , or \triangleright button.
- 11 Press the **MENU** () button to confirm your choice.

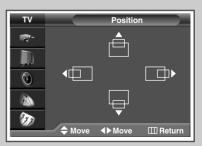




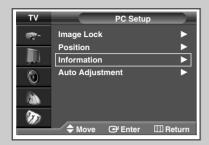


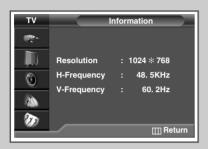






Setting the Picture (PC Mode) (continued)









- > Preset to the **PC** mode by using the **SOURCE** button.
- 12 If you get the PC information, select the **Information** by pressing the ▲ or ▼ button.

 Press the **ENTER** (♣) button.

Result: The resolution, horizontal and vertical frequency are

13 Press the MENU () button.

Result: The options available in the PC Setup group are displayed again.

14 Press the ▲ or ▼ button to select Auto Adjustment.
Press the ENTER (→) button.

Result: The screen quality and position are automatically reset with the **Auto Adjusting** displayed.

15 When you are satisfied with the settings, press the **MENU** () button repeatedly to return to the normal viewing.

Using the Fine Tune

If reception is weak, you can fine tune a channel manually.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Channel.

Result: The options available in the **Channel** group are

displayed.

3 Press the ENTER () button.

4 Press the ▲ or ▼ button to select Fine Tune.
Press the ENTER (→) button.

Result: The horizontal bar is displayed. Move the horizontal

bar's cursor left or right by pressing the ◀ or ▶ button

to reach the required setting.

5 Press the ◀ or ▶ button until the picture and sound are both clear and sharp. Press the ENTER (→) button.

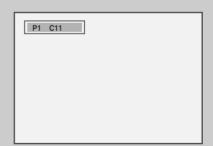
- 6 To reset the fine tuning to 0, select **Reset** by pressing the ▲ or ▼ button then press the **ENTER** (→) button.
 - If you are unable to fine tune a channel, check that the Colour System and Sound System settings are correct.
 - Fine tune Store will change the colour of the Channel OSD(On Screen Display) from White to Red.











Viewing the Channel Scan Picture





Press the MENU (□□) button.
 Result: The main menu is displayed.
 Press the ▲ or ▼ button to select Channel.
 Result: The options available in the Channel group are displayed.
 Press the ENTER (□□) button.
 Press the ▲ or ▼ button to select Ch. Scan.
 Press the ENTER (□□) button.

You can view every memorized channel in order.

- 5 Press the **MENU** () button to exit.
 - ➤ When PIP ON is activated, the PIP will appear in Large mode and PIP channel will be scanned.

Freezing the Current Picture



You can freeze the picture when watching a television programme simply by pressing the "STILL" button. To return to normal viewing, press it again.

- In the PIP mode, the main and sub pictures are stilled at the same time.
- ➤ This function will automatically cancel after 5 minutes.

Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button until the Size is selected. Press the ENTER (→) button
- **5** Press the ▲ or ▼ button to change the setting.
 - ♦ 16:9 : Sets the picture to 16:9 wide mode.
 - Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
 - ◆ **Zoom** : Magnify the size of the picture vertically on
 - ◆ 14:9 : Magnify the size of the picture more than 4:3.
 - ♦ 4:3 : Sets the picture to 4:3 normal mode.
- 6 Press the **ENTER** (→) button to confirm.
 - You can select these options by simply pressing the P.SIZE button on the remote control.
 - ◆ The picture size can not be changed in the PIP mode.
 - Depending on the input source, the P.SIZE options may vary.

Positioning and Sizing the screen using Zoom

- Resizing the screen using the Zoom enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.
 - Move the screen up/down using the ▲ or ▼ button after selecting the by pressing the ▲ or ▼ button.
 - Resize the screen vertically using the ▲ or ▼ button after selecting the figure by pressing the ▲ or ▼ button.
 - ◆ Screen enlargement operates only in TV/Video/ S-Video/Component1, 2 input modes.
 - PC/DVI modes prevents the screen enlargement function.





PC to DVI Mode





Selecting the Film Mode





You can automatically sense and process film signals from some sources and adjust the picture for optimum quality.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Picture.

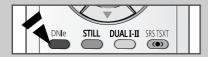
Result: The options available in the **Picture** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select Film Mode. Press the ENTER (→) button.
- 5 Select **off** or **on** by pressing the ▲ or ▼ button.
 - ◆ **off**: Switches off the **Film Mode**.
 - On: Automatically senses and processes film signals from some sources and adjusts the picture for optimum quality.
- 6 Press the **ENTER** (→) button to confirm.
 - Not available in the PC, Component (480P, 576P, 720P, 1080i) or DVI modes.
 - Mode discrepancies, such as turning off Film Mode while viewing a film source or turning on Film Mode while viewing non-film sources, may affect the picture quality.

DNIe™ (Digital Natural Image engine) DNIe™







This feature bring you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button until the Picture is selected.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** (→) button.
- 4 Press the ▲ or ▼ button until the **DNI**e is selected. Press the **ENTER** (→) button.
- 5 Press the ▲ or ▼ button to change the setting.

On : Switches on the DNIe mode.
 Off : Switches off the DNIe mode.

Demo (Option) : The screen before applying DNIe appears on the right and the screen after applying DNIe

appears on the left.

- 6 Press the **ENTER** (→) button to confirm.
 - > You can also set these options simply by pressing the **DNIE** button.

Setting the My Colour Control (Easy Control)

This feature allows you to adjust colours according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", and "Custom") without affecting other colours on the screen.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the Picture group are

displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select My Colour Control.

 Press the ENTER (→) button.

Result: The options available are displayed with the Easy Control is selected.

5 Press the ENTER (←) button.

Result: The following modes are available:

- Blue Emphasizing Clear Blues.
 - Green
 Emphasizing Mild Greens.
 - Pink
 Emphasizing Warm Skin Colours.
 - Standard
 Standard Picture.
 - Custom Changing the settings in the Detail Control menu will automatically set to Custom (see next page).
- 6 Select the required mode by pressing the ◀ or ▶ button.

Result: The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

- 7 Press the **ENTER** () button to confirm.
- Depending on the input source, this feature may not operate.
 - This feature is operated when the "DNIe" is set to "On" or "Demo" mode.







Setting the My Colour Control (Detail Control)











This settings can be adjusted to suit your personal preferences.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Picture.

Result: The options available in the **Picture** group are displayed.

3 Press the ENTER (→) button.

Press the ▲ or ▼ button to select My Colour Control. Press the ENTER (→) button.

Fress the ▲ or ▼ button to select Detail Control. Press the ENTER (→) button.

Result: The available options are displayed.

6 Select the required option (Pink, Green, or Blue) by pressing the ▲ or ▼ button. Press the ENTER (→) button.

7 Press the ◀ or ▶ button until you reach the required setting.

Result: Changing the adjustment value will refresh the adjusted screen.

8 Press the MENU () button.

9

Result: The options available in the **Detail Control** group are displayed again.

To return the factory defaults, select **Reset** by pressing the ▲ or ▼ button.

Result: The previously adjusted colours will be reset to the factory defaults.

10 Press the **ENTER** (**→**) button.

Setting the Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the ENTER (→) button.

Press the ▲ or ▼ button to select Miscellaneous. Press the ENTER (button.

Result: The options available in the Miscellaneous group are displayed.

5 Press the ▲ or ▼ button to select Blue Screen.
Press the ENTER (→) button.

6 Select **off** or **on** by pressing the ▲ or ▼ button.

7 Press the **ENTER** () button to confirm.

➤ Blue Screen is displayed while no signal from the external device in the External Mode, regardless of the Blue Screen Setting.







Setting the Melody Sound

7







You can hear melody sound when the television is powered on or off.

1 Press the **MENU** () button. Result: The main menu is displayed. 2 Press the ▲ or ▼ button to select **Setup**. The options available in the **Setup** group are displayed. 3 Press the **ENTER** () button. 4 Press the ▲ or ▼ button to select Miscellaneous. Press the **ENTER** () button. Result: The options available in the Miscellaneous group are displayed. 5 Press the ▲ or ▼ button to select **Melody**. Press the **ENTER** (→) button. 6 Select **off** or **on** by pressing the ▲ or ▼ button.

Press the **ENTER** () button to confirm.

Using the Colour Weakness Enhancement Feature

This feature adjusts the Red, Green or Blue colour to enhance the picture according to the user's particular colour weakness.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are

displayed.

3 Press the **ENTER** (→) button.

4 Press the ▲ or ▼ button to select **Colour Weakness**.

Press the **ENTER** () button.

Result: The options available in the Colour Weakness

group are displayed.

5 Press the **ENTER** (button again.

Press the ▲ or ▼ button to select **on**, then press the

ENTER (→) button.

6 Press the ▲ or ▼ button to select the colour you wish to adjust,

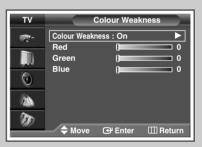
then press the ENTER () button.

7 Press the ◀ or ▶ button to adjust to your preference.

8 Press the MENU (Ⅲ) or ENTER (᠍) button to confirm.









Viewing the Picture In Picture (PIP)











You can display a sub picture within the main picture of TV program or external A/V devices. In this way you can watch TV program or monitor the video input from any connected devices while watching TV or other video input.

- Press the MENU (□□) button.
 Result: The main menu is displayed.
 Press the ▲ or ▼ button to select Picture.
 - Result: The options available in the **Picture** group are displayed.
- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select PIP. Press the ENTER (→) button.

Result: The options available in the **PIP** group are displayed.

- Fress the ENTER (→) button again.

 To activate, set the PIP to on by pressing the ▲ or ▼ button.

 Press the ENTER (→) button.
- 6 Press the ▲ or ▼ button to select **Source**. Press the **ENTER** (→) button.

Result: The sources are displayed in the following order:

TV - AV1 - AV2 - S-Video - Component1 - Component2 - PC - DVI

- ➤ The **PC** can not be selected in DVI mode.
 - ◆ The **DVI** can not be selected in PC mode.
- 7 Select a source of the sub picture by pressing the ▲ or ▼ button. Press the ENTER (→) button.
- 8 Press the ▲ or ▼ button to select swap. Press the ENTER () button.

Result: The main picture and sub picture are interchanged.

9 Press the ▲ or ▼ button to select **Size**. Press the **ENTER** (←) button.

Result: The sizes are displayed in the following order:

(Large) - (Small) - (Double1) - (Double2)

- ➤ The Double 1 or Double 2 mode can not be selected in PC or DVI mode.
- Select a size of the sub picture by pressing the ▲ or ▼ button. Press the ENTER (→) button.

Viewing the Picture In Picture (PIP) (continued)

Table of PIP Settings

PIP	TV	AV1	AV2	S-Video	Component1	Component2	PC	DVI
TV	0	0	0	0	0	0	0	0
AV1	0	Х	0	0	0	0	0	0
AV2	0	0	Χ	0	0	0	0	0
S-Video	0	0	0	Χ	0	0	0	0
Component1	0	0	0	0	Х	Χ	Х	Х
Component2	0	0	0	0	X	X	Х	Х
PC	0	0	0	0	X	X	Х	Х
DVI	0	0	0	0	Х	Χ	Х	Х

- X This PIP combination is not available.
- O This PIP combination is available.
- 11 Press the ▲ or ▼ button to select **Position**. Press the **ENTER** (→) button.

Result: The positions available are displayed.

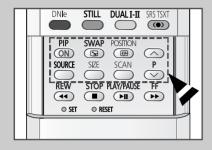


- Select a position by pressing the ▲ or ▼ button. Press the ENTER () button.
- Press the ▲ or ▼ button to select Prog.. Press the ENTER () button.
- 14 Select the channel that you want to view through sub picture by pressing the ▲ or ▼ button. Press the ENTER (→) button.
 - If the sub picture is no signal and the main picture is output from a Component, PC or DVI signal, the sub picture will be blue. If the main picture is output from a Video signal, the sub picture will be blue.





Viewing the Picture In Picture (PIP) (continued)



Easy functions of remote control.

Buttons	Feature
PIP ON	Used to activate or deactivate the PIP function directly.
SWAP	Used to interchange the main picture and the sub picture.
	When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the SWAP () button after changing the sub picture channel. At this time, reselect the channel of main picture.
POSITION	Used to move the sub picture counterclockwise.
SOURCE	Used to assign a source of sub picture (TV, AV1, AV2, S-Video, Component1, Component2, PC, or DVI).
SIZE	Used to select a size of sub picture (Large, Small, Double1, or Double2).
SCAN	Used to scan every memorized channel in order. To stop scanning, press it again.
P / V	Used to select the channel of sub picture.

Using the Digital NR (Noise Reduction) Feature

If the signal received by your television is weak, you can activate this feature to help reduce any static and ghosting that may appear on the screen.

1 Press the **MENU** () button. The main menu is displayed. Result: 2 Press the ▲ or ▼ button until the **Setup** is selected. The options available in the **Setup** group are displayed. 3 Press the **ENTER** (→) button. 4 Press the ▲ or ▼ button until the Digital NR is selected. Press the **ENTER** () button. 5 Select **off** or **on** by pressing the \triangle or ∇ button. 6 Press the **ENTER** () button to confirm.





Protecting the Screen Burning









You can prevent the residual image of the PDP.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- . .
- **3** Press the **ENTER** (**→**) button.
- 4 Press the ▲ or ▼ button to select Burn Protection.
- 5 Press the **ENTER** () button.

Result: The Burn Protection menu is displayed with the

Pixel Shift selected.

6 Press the ENTER () button again.

Result: The Pixel Shift menu is displayed with the Pixel Shift selected.

- 7 Press the ENTER (→) button. Set to **on** by pressing the **△** or **V** button for making the screen move per regular hour and preventing the residual image, then press the ENTER (→) button
- 8 Select the option (Horizontal Dot, Vertical Line, Time) to be adjusted by pressing the ▲ or ▼ button.
 Press the ENTER (→) button.
 - > Optimum condition for pixel shift:

Horizontal Dot	2
Vertical Line	4
Time	4MIN

- 9 Press the ▲ or ▼ button to reach the required setting. Press the ENTER (→) button.
- When you are satisfied with the settings, press the MENU (□□) button. Press the ENTER (□□) button.
- Press the ▲ or ▼ button to select ALL White.

 Press the ENTER (→) button. Set to on by pressing the ▲ or ▼ button for removing the residual image after making the screen white. Press the ENTER (→) button.

Protecting the Screen Burning (continued)

- 12 Press the ▲ or ▼ button to select **Signal Pattern**.

 Press the **ENTER** (→) button. Set to **on** by pressing the ▲ or ▼ button for removing the residual image.

 Press the **ENTER** (→) button.
 - The **Signal Pattern** and **ALL White** feature are effective after working for a long time.



Changing the Sound Standard

You can select the type of special sound effect to be used when watching a given broadcast.

- 1 Press the **MENU** () button.
 - Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Sound**.
 - Result: The options available in the **Sound** group are displayed.
- 3 Press the ENTER (→) button.
 - Result: The Mode is selected.
- 4 Press the ENTER (→) button again.
- 5 Select the option by pressing the ▲ or ▼ button. The sound effects are displayed in the following order.
 - Standard Music Movie Speech Custom
- 6 Press the ENTER (→) button to confirm.
 - You can also set these options simply by pressing the **S.MODE** (★♪ト: Sound Mode) button.







Adjusting the Sound Settings





The sound settings can be adjusted to suit your personal preferences.

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the ENTER (→) button.

4 Press the ▲ or ▼ button to select Equalizer.
Press the ENTER (→) button.

Result: The Equalizer menu is displayed with the current

- Select the option (volume, balance, equalizer) to be adjusted by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to reach the required setting.
- When you are satisfied with the settings, press the MENU () button to store them.
 - If you make any changes to the equalizer settings, the sound standard is automatically switched to the **Custom**.

Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

 $\underline{ \mbox{Result:}} \qquad \mbox{The options available in the } \mbox{\bf Sound group are}$

displayed.

3 Press the ENTER () button.

4 Press the ▲ or ▼ button to select Auto Volume. Press the ENTER (→) button.

5 Select **off** or **on** by pressing the ▲ or ▼ button.

6 Press the **ENTER** () button to confirm.





Setting the TruSurround XT







TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button until the **sound** is selected.

Result: The options available in the **Sound** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button until the **SRS TSXT** is selected. Press the **ENTER** () button.
- Fress the ▲ or ▼ button to change the setting. (Off, 3D Mono, or Stereo)
- 6 Press the **ENTER** (→) button to confirm.
 - TruSurround XT, SRS and () Symbol are trademarks of SRS Labs, Inc.
 TruSurround XT technology is incorporated under license from SRS Labs, Inc.



➤ You can also set these options simply by pressing the SRS TSXT ((♠)) button.

Selecting the Internal Mute

If you want to hear the sound through separate speakers, cancel the internal amplifier.

1 Press the MENU () button.

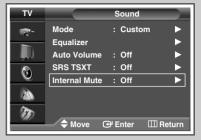
Result: The main menu is displayed.

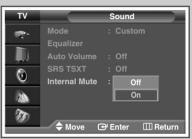
2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are

displayed.

- **3** Press the **ENTER** (→) button.
- 4 Press the ▲ or ▼ button to select Internal Mute.
 Press the ENTER (→) button.
- 5 Select **off** or **on** by pressing the ▲ or ▼ button.
- 6 Press the **ENTER** () button to confirm.
 - You can also set these options simply by pressing the MUTE button.







Selecting the Sound Mode (depending on the model)



The "DUAL I-II" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I" or "Stereo", depending on the current transmission.

	Type of broadcast	On-screen indication
	Regular broadcast (Standard audio)	Mono (Normal use)
NICAM	Regular + NICAM Mono	NICAM Mono ↔ Mono
Stereo	NICAM Stereo	NICAM Stereo ←→ Mono (Forced mono)
	NICAM DUAL-I/II	NICAM DUAL-I → NICAM DUAL-II → Mono
	Regular broadcast (Standard audio)	Mono
A2 Stereo	Bilingual or DUAL-I/II	DUAL-I ↔ DUAL-II
	Stereo	Stereo ←→ Mono (Forced mono)

- **>**
- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to the Mono.
 - If the stereo signal is weak and an automatic switching occurs, then switch to the Mono.
 - When receiving a mono sound in the AV mode, connect to the "AUDIO-L" input connector on the side of the television. If the mono sound comes out only from left speaker, press the DUAL I-II button.

Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.

1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- 3 Press the ENTER (←) button.
- 4 Press the ▲ or ▼ button to select **Time**. Press the **ENTER** () button.

Result: The options available in the **Time** group are displayed.

5 Press the ▲ or ▼ button to select **Sleep Timer**.

Press the **ENTER** (→) button.

Result: The **Sleep Timer** menu is displayed with the **Min** is selected.

- Select the preset time intervals (off, 30, 60, 90, 120, 150, or 180) by pressing the ▲ or ▼ button.
- 7 Press the ◀ or ▶ button to move to the Activation.
- When you are satisfied with the settings, select Activation to Yes or No by pressing the ▲ or ▼ button.
- **9** Press the **ENTER** () button to confirm your selection.
 - ➤ You can also set these options simply by pressing the SLEEP button.
 - If the sleep timer is not yet set, Off is displayed.
 If the sleep timer is already set, the remaining time before which the television switches to standby mode is displayed.













Setting and Displaying the Current Time









You can set the television's clock so that the current time is displayed by pressing the "INFO ()" button. You must also set the time if you wish to use the automatic on or off timers.

- ➤ When pressing the "1 / ७" button (On/Off) on the front of the television, the clock setting will be reset.
- 1 Press the MENU () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select **Time**.

Press the **ENTER** () button.

Result: The options available in the **Time** group are displayed with **Clock** is selected.

- 5 Press the **ENTER** (→) button.
- 6 Press the ◀ or ▶ button to move to the hour or minute. Set the hour, minute or am/pm by pressing the ▲ or ▼ button.
- 7 When you have finished, press the **MENU** (\(\) button to exit.
- **8** Press the **INFO** () button to display the current time.

Switching the Television On and Off Automatically

You can set the television's clock and set the On or Off timers so that the television will:

- Switch on automatically and tune to the channel of your choice at the time you select
- ♦ Switch off automatically at the time you select
- The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page).
- 1 Press the MENU (TTT) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- **3** Press the **ENTER** (→) button.
- 4 Press the ▲ or ▼ button to select **Time**.

Press the **ENTER** (→) button.

Result: The options available in the **Time** group are displayed.

5 Press the ▲ or ▼ button to select **On Timer**.

Press the **ENTER** () button.

Result: The options available in the **On Timer** group are displayed.

- 6 Select the Hour, Min, am/pm, Prog., or Volume by pressing the ◀ or ▶ button. Set these by pressing the ▲ or ▼ button.
- 7 Press the ◀ or ▶ button to move to the Activation.
- When you are satisfied with the settings, select Activation to Yes or No by pressing the ▲ or ▼ button.
- 9 Press the MENU () button.

Result: The options available in the **Time** group are displayed again.

10 Press the ▲ or ▼ button to select **Off Timer**.

Press the **ENTER** () button.

Result: The **Off Timer** menu is displayed.

- Select the Hour, Min, am/pm, or Activation by pressing the ◀ or ▶ button. Set these by pressing the ▲ or ▼ button.
- **12** Press the **ENTER** (→) button to confirm.
 - Auto Power Off

Auto Power OFF will automatically turn the TV off if you do not operate any controls within 3 hours after the TV is turned on by the timer. This function is available in the timer "On" mode only and will prevent a leakage accldent or overheating caused by your TV being left on too long.

If no signal is received for 15 minutes, the TV will be automatically turned off.









Viewing an External Signal Source











Use the remote control to switch between viewing signals from connected equipment, such as VCR, DVD, Set-Top Boxs and the TV source (broadcast or cable).

1 Press the **MENU** () button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Input.

Result: The options available in the Input group are

- 3 Press the ENTER (→) button.
- 4 Press the ▲ or ▼ button to select **Source List**. Press the **ENTER** (→) button.

Result: The options available in the **Source List** group are displayed.

- 5 Press the ▲ or ▼ button to select signal source, then press the ENTER (→) button.
 - When you connect equipment to the TV, you can choose between the following sets of jacks: AV1, AV2, S-Video, Component1, Component2, PC, or DVI on the TV's rear panel.
- 6 Press the **MENU** () button and select **Input**.
- 7 Press the ▲ or ▼ button to select Edit Name.
 Press the ENTER (←) button.

Result: The options available in the Edit Name group are displayed.

- 8 Press the ▲ or ▼ button to select external device:
 AV1 AV2 S-Video Component1 Component2 PC DVI
- 9 Press the ENTER () button.

Result: The Edit Name available are listed.

- Select the name by pressing the ▲ or ▼ button. Press the ENTER (→) button.
- Set other signal sources (VCR, DVD, Cable STB, HD STB, Satellite STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DHR or PC) using the same method as listed above.
 - You can also set these options simply by pressing the **SOURCE** (-) button. If you change the external source while viewing, pictures might take a short period of time to be switched.
 - > DHR : DVD HDD Recorder.

Teletext Feature

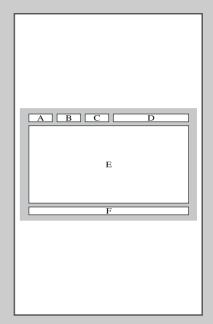
Most television channels provide written information services via teletext. Information provided includes:

- **♦** Television programme times
- **♦** News bulletins and weather forecasts
- ♦ Sports results
- **♦** Travel information

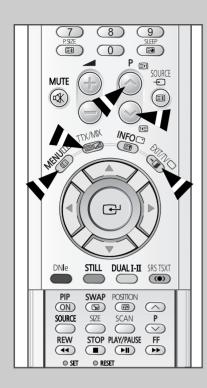
This information is divided into numbered pages (see diagram).

Part	Contents
А	Selected page number.
В	Broadcasting channel identity.
С	Current page number or search indications.
D	Date and time.
Е	Text.
F	Status information. FASTEXT information.

- > Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)



Displaying the Teletext Information



You can display Teletext information at any time on your television.

- For Teletext information to be displayed correctly, channel reception must be stable; otherwise:
 - ♦ Information may be missing
 - ◆ Some pages may not be displayed
- Select the channel providing the Teletext service by pressing the P or button.
- 2 Press the TTX/MIX () button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the [i] (index) button.

3 Press the TTX/MIX () button again.

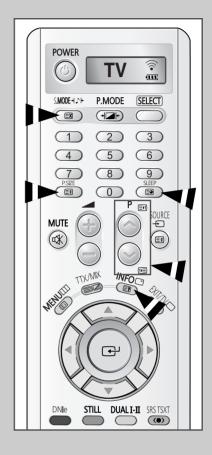
Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.

- 4 If you wish to display the actual broadcast and teletext information on a single screen, press the TTX/MIX () button again.
- 5 To exit from the teletext display, press the **EXIT/TV** (→**I**) button.

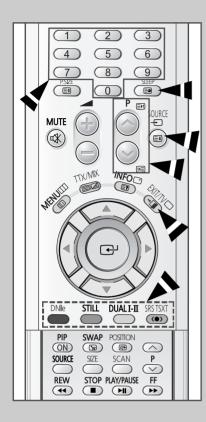
Selecting Display Options

When you have displayed a Teletext page, you can select various options to suit your requirements.

To display	Press the
 Hidden text (answers to quiz games, for example) 	
◆ The normal screen	☐? (reveal) again
◆ A secondary page by entering its number	(sub-page)
◆ The broadcast when searching for a page	
◆ The next page	∰ (page up)
◆ The previous page	(page down)
 Double-size letters in the: Upper half of the screen Lower half of the screen 	(size)OnceTwice
◆ The normal screen	Three times



Selecting a Teletext Page



You can enter the page number directly by pressing the numeric buttons on the remote control.

1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

Result:

The current page counter is incremented and the page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold). Press it again to resume.

2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.

Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

Result:

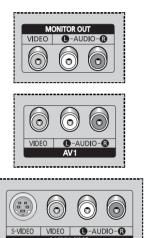
The page is displayed with other coloured information that can be selected in the same way.

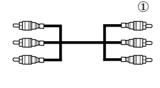
- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the sub-page, see the following steps.
 - Press the (sub-page) button. Result: The available sub-pages appear.
 - Select the required sub-page. Sub-pages can be scrolled by pressing the more or the button.
- 5 When you have finished, press the **EXIT/TV** (→**I**) button to return to your normal broadcast.

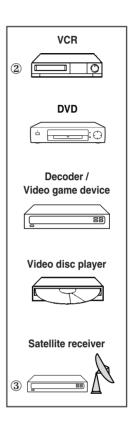
Connecting to the External Devices

"MONITOR OUT" are used for the equipment with an RGB output, such as video game devices or video disc players.

Rear of the TV (Input/Output)







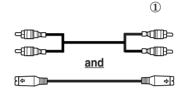
- 1 This end can be fitted with:
 - ◆ Three RCA connectors (VIDEO + AUDIO-L/R)
- ② If you have a second VCR and wish to copy cassettes tape, connect the source VCR to "AV1(or AV2)" and the target VCR to "MONITOR OUT" so that you can redirect the signal from "AV1(or AV2)" to "MONITOR OUT".
- When you wish to record a programme, connect the receiver to "AV1(or AV2)" and the VCR to "MONITOR OUT" so that you can redirect the signal from "AV1(or AV2)" to "MONITOR OUT".

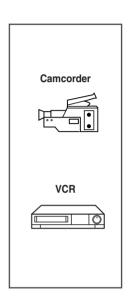
Connecting to the S-Video Input

The S-VIDEO and RCA (AUDIO-L/R) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.









① To play picture and sound, both the S-VIDEO and RCA connectors must be used.

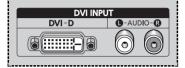


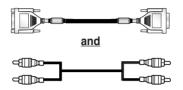
Whenever you connect an audio or video system to your television, ensure that \underline{all} elements are switched \underline{off} . Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting to the DVI Input

The "DVI" (video) and "L-AUDIO-R" connectors are used for equipment with a DVI output.

Rear of the TV



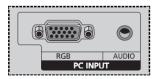


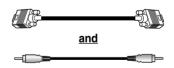


Connecting to the PC Input

The "RGB" (video) and "AUDIO" connectors are used for interfacing with your PC.

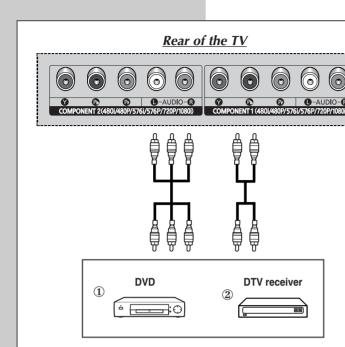
Rear of the TV







Connecting to the Component Input

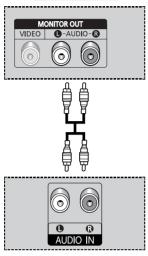


- ① The "COMPONENT 1" connectors are used for equipment with a DVD output. (480i/480P/576i/576P/720P/1080i)
- ② The "COMPONENT 2" connectors are used for DTV receiver. (480i/480P/576i/576P/720P/1080i)

Connecting and Using the Home Theater System

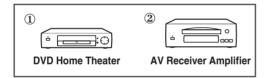
Use the Monitor Out ports of the PDP for Home Theater System Connections.





Connecting the Home Theater System

- ① Connect the monitoring audio out L, and R jacks of the MONITOR OUT on the rear-side connection panel of the PDP TV to the AUDIO IN jacks of the DVD Home Theater System (or AV Receiver) using the audio cable.
- ② Press the SOURCE button to select the desired external device connected to the PDP TV.
- ③ If you want to hear the sound through separate speakers, cancel the internal amplifier.





- Refer to corresponding user's manual from the manufacturer for wiring the speakers to the DVD Home Theater System (or AV Receiver).
- Disable the PDP TV internal speaker to enjoy the rich sound through the speakers of your Home Theater System.
- In this case, enjoy the sound from the Home Theater System while the PDP TV does not produce the audio.

To Display the DVD Home Theater

- ① Turn the PDP on and press the SOURCE button to select the AV1(or AV2) or Component1(or Component2).
- ② Be sure to connect the video cable properly if desired external input AV1(or AV2) or Component1(or Component2) cannot be selected.
- 3 Play the DVD after activating the DVD Home Theater System.
- Use the volume control of the Home Theater System while watching the PDP using the DVD Home Theater, where the PDP TV does not produce the audio.

Setting up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



 Right click the mouse on the Windows Desktop, then click on Properties. The **Display Dialog-Box** will be displayed.







- 2 Click on Settings, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colours settings.
- Click on Advanced. A new settings dialog box will be displayed.
- 4 Click on the Monitor tab, then set the Screen Refresh Rate with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the Screen Refresh Rate.
- 5 Press the OK button, close the window, then press the OK button on the Display Registration Information window. Automatic re-booting may commence at this moment.
- 6 Shutdown the PC, and connect it to your TV. (See page 63)
- The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
 - When you use your TV as a PC monitor, it supports Colours up to 32 bits.
 - In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
 - When connecting a PC (including the DVI connection), you must set it to the display settings that are supported by the TV.
 Otherwise, the message Out of input range will be displayed.

Input Mode (PC/DVI)

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Video Signal	Resolution (Dot x Line)	Vertical frequency (Hz)	Horizontal frequency (kHz)	Vertical polarity	Horizontal polarity
	720 X 400	70.087	31.469	Р	N
	640 X 480	59.940	31.469	N	N
		72.809	37.861	N	N
		75.000	37.5	N	N
_		85.061	43.269	N	N
	800 X 600	56.250	35.156	N/P	N/P
IBM PC / AT		60.317	37.897	Р	Р
Compatible		72.188	48.077	Р	Р
		75.000	46.875	Р	Р
		85.061	53.674	Р	Р
	1024 X 768	60.004	48.363	N	N
		70.069	56.476	N	N
		75.029	60.023	Р	Р
		84.997	63.677	Р	Р

(N: Negative / P: Positive)

- ◆ The interlace mode is not supported.
- ◆ The television might operate abnormally if a non-standard video format is selected.

Notes

- ◆ The PC text quality for **PS-37S4H** is optimum in **XGA** mode (1024 x 768@60Hz).
- ♦ When this television is used as a PC display, 32-bit colour is supported.
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a television.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.3kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the SOURCE button to enter the Video mode. Also, make sure that the PC is connected.
- When connecting a notebook PC to the television, make sure that the PC screen is displayed through only the television (Otherwise, random signals might appear).
- When horizontal synchronous signals seem irregular in PC mode, check PC power saving mode or cable connections.
- ◆ The Display Settings Table above complies to the IBM/VESA standards, and based on the analog input.
- ◆ The DVI support mode is regarded as same to the PC support mode.
- ◆ The best timing for the vertical frequency to each mode is 60Hz.

Pin Configurations

PC Input Connector (15Pin)



Pin	PC IN
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)

DVI Input Connector (24Pin)



Pin	Signal
1	T.M.D.S. Data2-
2	T.M.D.S. Data2+
3	T.M.D.S. Data2/4 Shield
4	T.M.D.S. Data4-
5	T.M.D.S. Data4+
6	Clock (DDC)
7	Data (DDC)
8	Not Connected
9	T.M.D.S. Data1-
10	T.M.D.S. Data1+
11	T.M.D.S. Data1/3 Shield
12	T.M.D.S. Data3-
13	T.M.D.S. Data3+
14	+5V Power
15	5V Grounding
16	Hot Plug Detect
17	T.M.D.S. Data0-
18	T.M.D.S. Data0+
19	T.M.D.S. Data0/5 Shield
20	T.M.D.S. Data5-
21	T.M.D.S. Data5+
22	T.M.D.S. Clock Shield
23	T.M.D.S. Clock+
24	T.M.D.S. Clock-

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	 ◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the "I" button (On/Off) and the POWER (◎) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	Check the volume. Check whether the volume MUTE (➪) button on the remote control has been pressed.
No picture or black and white picture	 Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference	 Try to identify the electrical appliance that is affecting the television, then move it further away. Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	 Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	 Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.

Programming the Remote Control for Other Components

CABLE CODE LIST

DVD CODE LIST

Anvision	017, 018
Gl	041
Hamlin	003, 024, 031
Hitachi	025, 030
Jerrold	038, 039
Macom	025, 030
Magnavox	019, 023, 028
Oak	026
Panasonic	003, 022, 027, 037, 044
Philips	019, 021, 023, 028
Pioneer	018, 020, 004, 044
RCA	014, 022, 040
Regal	003
Regency	015, 023
SA	042, 043
Samsung	000, 001, 002, 003, 004, 005, 006, 007
Scientific Atlanta	042, 043
Sprucer	022
Stargate 2000	036
Sylvania	016
Texscan	016
Tocom	032
Universal	033, 034
Viewstar	019, 021,023, 028
Wamer amex	046
Zenith	017, 029, 035, 037, 045

Samsung	000
Samsung	001
JVC	002
PROSCAN, RCA	003
Panasonic	005
LG(Goldstar)	006
Sony	007
Denon	800
Curtis Mathes	009

Programming the Remote Control for Other Components (continued)

VCR CODE LIST

Audio Dynamics Bell&Howell Broksonic Candle 002, 006, 003, 015 Canon Citizen 002, 006, 003, 015 Colortyme Craig	021, 056 5, 008, 055 007 002, 024	NEC Optimus Panasonic Pentax Pentex Resear Philco Philips Pioneer Portland PROSCAN	018, 007, 026, 037, 008, 062, 06 02 021, 056, 071, 07 019, 04 rch 021, 036, 056, 05 021, 03 019, 026, 039, 05 015, 049, 05
Akai 027 Audio Dynamics Bell&Howell Broksonic Candle 002, 006, 003, 015 Canon Citizen 002, 006, 003, 015 Colortyme Craig	7,004,032 007,026 018 022 5,008,055 021,056 5,008,055 007 002,024	Panasonic Pentax Pentex Resear Philco Philips Pioneer Portland PROSCAN	021, 056, 071, 07 019, 04 rch 021, 036, 056, 05 021, 03 019, 026, 039, 05
Audio Dynamics Bell&Howell Broksonic Candle 002, 006, 003, 015 Canon Citizen 002, 006, 003, 015 Colortyme Craig	007, 026 018 022 5, 008, 055 021, 056 5, 008, 055 007 002, 024	Pentax Pentex Resear Philco Philips Pioneer Portland PROSCAN	019, 04 rch 00 021, 036, 056, 05 021, 03 019, 026, 039, 05
Bell&Howell Broksonic Candle 002, 006, 003, 015 Canon Citizen 002, 006, 003, 015 Colortyme Craig	018 022 5,008,055 021,056 5,008,055 007 002,024	Philco Philips Pioneer Portland PROSCAN	rch 000 021, 036, 056, 05 021, 03 019, 026, 039, 05
Broksonic Candle 002, 006, 003, 015 Canon Citizen 002, 006, 003, 015 Colortyme Craig	022 5,008,055 021,056 5,008,055 007 002,024	Philco Philips Pioneer Portland PROSCAN	021, 036, 056, 05 021, 03 019, 026, 039, 05
Candle 002, 006, 003, 015 Canon Ottizen Colortyme Craig	5, 008, 055 021, 056 5, 008, 055 007 002, 024	Philips Pioneer Portland PROSCAN	021, 03 019, 026, 039, 05
Canon Citizen 002, 006, 003, 015 Colortyme Craig	021, 056 5, 008, 055 007 002, 024	Pioneer Portland PROSCAN	019, 026, 039, 05
Citizen 002, 006, 003, 015 Colortyme Craig	007 002, 024	Portland PROSCAN	
Colortyme Craig	007	PROSCAN	
Craig	002, 024		01
		Quartz	01
Curtis Mathes 002, 017, 007, 008, 021, 025, 056	5 064 066	Quasar	021, 05
Daewoo 003, 015, 010, 011, 012, 013		Radio Shack/R	
DBX	007, 026	Tiddio Oridoivi	025, 029, 034, 048, 05
Dimensia	017	RCA	017, 019, 002, 021, 035, 041, 043, 057, 06
Dynatech	034	Samsung	000, 001, 002, 003, 004, 00
Emerson 001, 003, 006, 021, 022, 025, 030		Sansui	020, 001, 002, 000, 001, 00
040, 047, 050, 052, 060, 063, 065, 066		Sanyo	018, 02
Fisher 018, 024, 028, 029, 048		Scott	003, 047, 052, 06
Funai	025	Sears	018, 019, 006, 024, 028, 029, 041, 048, 05
General Electric 017, 002, 021		Sharp	020, 034, 045, 01
Go Video	002	Shimom	027, 033, 038, 05
LG(Goldstar) 006, 007, 008		Signature	027, 000, 000, 00
Harman Kardon	007	Sony	027, 033, 04
	5, 041, 042	Sylvania	021, 025, 036, 056, 05
Instant Replay	021	Symphonic	021, 023, 033, 033, 033
JC Penny 002, 007, 018, 019, 021, 026, 037, 04		Tandy	018, 02
JVC 007, 008, 018, 021		Tashika	00
Kenwood 007, 008, 018		Tatung	03
KLH	070	Teac	025, 037, 06
Lioyd	025	Technics	020, 007, 00
Logik	038	Teknika	021, 006, 025, 03
LXI	025	TMK	06
	6, 056, 059	Toshiba	003, 019, 029, 051, 05
Marantz 018, 021, 007, 026, 037, 008		Totevision	002, 00
Marta	006	Unitech	0002,000
MEI	021	Vector Research	
	, 024, 025	Victor	02
MGA 000, 021	034	Video Concept	
Midland	005	Video concept Videosonic	007, 02
Minolta	019, 041	Wards	002, 003, 006, 019, 020, 021, 02
	I, 041, 046	TTAIAO	025, 034, 038, 04
Montgomery Ward	020	Yamaha	007, 008, 018, 026, 03
MTC	002, 025	Zenith	023, 027, 033, 07
	5, 038, 005	_Or itu l	020, 021, 000, 01

- AFTER SALES SERVICE

 Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

